

Patent Claims

1. Measuring device for process technology, useful in measuring- and/or cleaning- and/or calibration-installations in the field of process automation for measuring pH-values and/or redox potentials and/or other process parameters, with at least one central unit, which has at least one central computer (1), characterized in that there is provided in the central computer (1) a management system (4) for the dynamic management of input components (I) and/or output components (O) and/or functional components (F) and/or service components (D) and/or management components (V) and/or interface components (IX) and/or other system components.
2. Measuring and/or control and/or regulating device as claimed in claim 1, characterized in that the execution of application programs on the central computer (1) can be managed from the management system (4).
3. Measuring device as claimed in one of the preceding claims, characterized in that the management system (4) includes a parameter management system (5).
4. Measuring device as claimed in one of the preceding claims, characterized in that the management system (4) includes means for error recognition and/or error handling.
5. Measuring device as claimed in one of the preceding claims, characterized in that, preferably in the central computer (1), a communications interface (6) is provided, which interacts with the interface component (IX).
6. Measuring device as claimed in one of the preceding claims, characterized in that a user interface (UI) is provided.
7. Measuring device as claimed in claim 5 or 6, characterized in that the communications interface (6) includes a field bus,

Profibus, HART or FOUNDATION field bus interface.

8. Measuring device as claimed in one of the claims 5 to 7, characterized in that the communications interface (6) includes an integrated Web server.

9. Measuring device as claimed in claim 8, characterized in that the user interface (UI) includes a Web browser.

10. Operating method for a measuring device for process technology, useful in measuring- and/or cleaning- and/or calibration-installations in the field of process automation for measuring pH-values and/or redox potentials and/or other process parameters, with at least one central unit, which has at least one central computer (1), wherein, in the central computer (1), a management system (4) dynamically manages input components (I) and/or output components (O) and/or functional components (F) and/or service components (D) and/or management components (V) and/or interface components (IX) and/or other system components.

11. Operating method as claimed in claim 10, characterized in that the system components are, preferably with the help of a development environment, specified and/or selected and/or configured and/or connected together, before they are transferred into the central computer (1).

12. Operating method as claimed in claim 10 or 11, characterized in that the system components are, during operation of the measuring device, transferred into the central computer (1) and/or bound-in by the management system (4).

13. Operating method as claimed in one of the claims 10 to 12, characterized in that system components are bound-in permanently into the central computer (1) and that, for configuring the measuring device, information about the connection of the system components is utilized by the management system (4).

14. Operating method as claimed in claim 13, characterized in that information about the connection of the system components is obtained with the help of a development environment preferably outside of the central computer (1).

15. Operating method as claimed in claim 13 or 14, characterized in that the information about the binding/connection of the system components is transferred from a first measuring device to further measuring devices.